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grandiflora that resemble *O. lamarckiana* (with demonstrations).

W. Johannsen (University of Copenhagen): Some Mutations in Pure Lines of Beans.

G. H. Shull (Carnegie Institution): New Place Effects and the Genotype Concept.

R. Pearl (Maine Agricultural Experiment Station): On the Mechanism of Inheritance of Fecundity in the Domestic Fowl.

T. H. Morgan (Columbia University): Associative and Mendelian Inheritance.

E. B. Wilson (Columbia University): Some Problems of Cytology in relation to the Study of Genetics.

D. H. Tennent (Bryn Mawr College): The Correlation between Chromosomes and Particular Characters Exhibited in Hybrid Echinoid Larvæ.

H. D. Goodale (Carnegie Institution): Castration in relation to Secondary Sexual Characters in Brown Leghorns.

R. K. Nabours (Kansas State Agricultural College): Inheritance in the Grouse Locust (with demonstrations).

H. J. Webber (Cornell University): The Inheritance of Characters in Peppers.

All of the papers read before the Society will appear in series in the forthcoming numbers of *The American Naturalist*.

The following were elected to membership in the Naturalists: Alice M. Boring, University of Maine; H. L. Clark, Harvard University; C. D. Congdon, Cornell Medical School; H. K. Hayes, Connecticut Agricultural Experiment Station; E. P. Humbert, New Mexico Agricultural Experiment Station; F. Payne, University of Indiana; H. D. Senior, New York University and Bellevue Medical College; L. H. Smith, University of Illinois; L. R. Waldron, North Dakota Agricultural Experiment Station.

The following officers were elected for 1912:

President—Professor E. G. Conklin, Princeton University.

Vice-president—Professor R. G. Harrison, Yale University.

Secretary—Professor A. L. Treadwell, Vassar College.

Treasurer—Professor W. E. Kellicott, Goucher College.

Additional Members of the Executive Committee—Professor B. M. Davis, University of Pennsylvania; Professor H. E. Jordan, University of Virginia.

CHAS. R. STOCKARD,
Secretary 1911

THE WASHINGTON MEETING OF THE AMERICAN CHEMICAL SOCIETY

AGAIN the American Chemical Society has held the largest meeting in its history, 658 members and guests registering in Washington, and probably 700 were present.

The meeting opened on Wednesday, December 27, with a joint meeting of the Section on Chemical Education and the Division of Physical and Inorganic Chemistry, at which the following four papers were given:

A. A. Noyes (chairman): The Teaching of Physical Chemistry.

W. D. Bancroft: Physical Chemistry in the Introductory Course.

H. C. Jones: The Introduction of Physical Chemical Conceptions in the Early Stages of the Teaching of General Chemistry.

J. Howard Mathews: Some Applications of Color Photography in the Teaching of Physical Chemistry (illustrated).

In the afternoon the address of Vice-president Frankforter, of Section C, entitled "The Resins and their Chemical Relations to the Terpenes," was delivered before a large audience and was followed by an address by Chairman H. P. Talbot on the subject "Privileges and Responsibilities of the Chemical Analyst." Following Dr. Talbot, Dr. A. L. Voge, of the Library of Congress, read a paper on "Ostwald's Proposed International Institute of Chemistry."

Throughout the week the society's Divisions of Agricultural and Food Chemistry, Biological Chemistry, Industrial Chemists and Chemical Engineers, Fertilizer Chemistry, Organic Chemistry, Pharmaceutical Chemistry, Physical and Inorganic Chemistry and the Chemistry of India Rubber, held meetings in rooms especially assigned to them.

Some 500 were present at the "smoker" on Wednesday evening, which was fully up to the standard of the well-known smokers of the Chemical Society.

On Thursday evening Alexander Smith, president of the society, delivered his presidential address, entitled "An Early Physical Chemist," and was followed by an interesting lecture by Frank B. Kenrick and H. E. Howe, consisting chiefly of illustrations by means of the lantern of the effect of temperature, pressure, concentration, surface tension, osmotic pressure, etc., on reactions in heterogeneous systems.

A feature of the divisional meetings was the

Symposium on Mineral Wastes and their Conservation, held before the Division of Industrial Chemists and Chemical Engineers on Friday. The following papers were presented and the discussion was prolonged throughout the day:

J. A. Holmes: Carbon Waste.

W. H. Bassett: (a) Zinc Losses in Brass Manufacture; (b) Need of Special Alloys for Special Uses.

W. R. Whitney: New Uses to Reduce Abuses in Conservation.

A. V. Bleining: Wastes in the Ceramic Industry.

A. D. Little: The Abuse of Brand.

F. K. Cameron: Waste and Conservation of Potash and Phosphoric Acid.

F. G. Cottrell: Sulphur Fumes and Flue Dust.

Charles L. Parsons: Miscellaneous Mineral Wastes.

This program, together with the papers given, will be featured in the March *Journal of Industrial and Engineering Chemistry*.

The Division of Pharmaceutical Chemistry held a Symposium on Drug Assaying on Friday morning and on Friday afternoon a joint meeting of the Society of Biological Chemists was held with the biological chemists of the American Chemical Society.

The secretary's report showed an increase of members of over five hundred for the year, the society's membership standing on December 1 at 5,603. During the year the society spent over \$55,000 on its journals, returning to each paid member in actual cost of publications more than 100 per cent. of his dues.

At the meeting of the council on Tuesday afternoon and evening the Biological Section of the society was authorized to form a Biochemical Division, electing its own officers, and two new local sections were formed; one at Detroit and one at New Haven.

Interesting reports were received from the Committee on Standard Methods of Analysis and from the Committee on Patent and Related Legislation.

It was voted to donate the library of the American Chemical Society to the New York Chemists' Club on condition that members of the Society have ready access thereto.

The question of the time of the annual meetings of the society was vigorously discussed, many members favoring a change from the winter season to Easter week, and a committee was appointed to take this into consideration and report to the council.

The election of the following officers was announced for 1912:

A. D. Little, President; C. L. Parsons, Secretary; A. P. Hallock, Treasurer; W. A. Noyes, Editor of the *Journal of the American Chemical Society*; A. M. Patterson, Editor of *Chemical Abstracts*; M. C. Whitaker, Editor of the *Journal of Industrial and Engineering Chemistry*; E. G. Love and Alexander Smith, Directors for two years; S. W. Parr, W. H. Walker, W. L. Miller and W. D. Bigelow, Councilors-at-Large for three years; C. H. Herty, Councilor-at-Large to fill the unexpired term of A. D. Little; E. G. Love, G. C. Stone and A. E. Hill, Finance Committee; Wm. McMurtrie, C. L. Parsons and B. E. Curry, Membership Committee.

Over two hundred and fifty papers were presented at the meeting, abstracts of many of which will appear shortly in *SCIENCE*.

CHARLES L. PARSONS,
Secretary

THE AMERICAN PHYTOPATHOLOGICAL SOCIETY

THE third annual meeting of the American Phytopathological Society was held in Washington, D. C., December 27-29, 1911, in affiliation with the American Association for the Advancement of Science. A program of fifty-one papers was presented. Joint sessions with Section G and also with the Botanical Society of America were held. The present membership is about 240. The report of the business manager of *Phytopathology*, the official organ of the society, showed a small balance to the credit of the journal after all the expenses for the first volume had been paid. The present editorial staff and business manager of the journal were continued for the coming year. The following are the officers for 1912:

President—G. P. Clinton, Agricultural Experiment Station, New Haven, Conn.

Vice-president—F. C. Stewart, New York Agricultural Experiment Station, Geneva, N. Y.

Secretary-Treasurer—C. L. Shear, U. S. Department of Agriculture, Washington, D. C.

Councilors—W. A. Orton, U. S. Department of Agriculture, Washington, D. C.; Erwin F. Smith, U. S. Department of Agriculture, Washington, D. C.; A. D. Selby (*ex officio*), Ohio Agricultural Experiment Station, Wooster, Ohio; L. R. Jones (*ex officio*), University of Wisconsin, Madison, Wis.

C. L. SHEAR,
Secretary